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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/630,618	07/29/2003	Laurence N. Bascom	HT3830 US NA	8666

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WILMINGTON, DE 19805

EXAMINER

PIERCE, JEREMY R

ART UNIT	PAPER NUMBER
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1771

DATE MAILED: 05/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/630,618

Applicant(s)

BASCOM ET AL.

Examiner

Jeremy R. Pierce

Art Unit

1771

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) 19-25 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 1/5/05, 11/14/03.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: ____.

DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-18, drawn to a flame blocking fabric, classified in class 442, subclass 414.
 - II. Claims 19-25, drawn to a process for fireblocking a mattress, classified in class 252, subclass various.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the claimed product may be used as insulation in building materials.
3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
4. During a telephone conversation with Andrew Golian on May 3, 2005 a provisional election was made with traverse to prosecute the invention of Group I, claims 1-18. Affirmation of this election must be made by applicant in replying to this

Office action. Claims 19-25 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murphy et al. (US 2004/0060119) in view of Monfalcone et al. (US 2003/0082972) and Forsten et al. (U.S. Patent No. 5,578,368).

Murphy et al. disclose a fire barrier fabric layer comprising cellulose fibers and organic fibers (Table 1). The fabric may weight between 0.25 and 8 osy (paragraph 38) and may be 50/50 Visil/Kevlar (Table 1). Visil is a viscose fiber that contains silicic acid and Kevlar is a para-aramid fiber.

Although Murphy et al. do not explicitly teach the limitations of percent fiber retained upon heating to a certain temperature, it is reasonable to presume that said limitations are inherent to the invention. Support for said presumption is found in the use of similar materials (i.e. similar cellulosic fibers and similar organic fibers) and in the similar production steps (i.e. blending fibers) used to produce the fire retardant fabric. The burden is upon the Applicant to prove otherwise. *In re Fitzgerald*, 205 USPQ 594.

In the alternative, the claimed retention percentages would obviously have been provided by the process disclosed by Murphy et al.

With regard to the limitation for fabric density, Murphy et al. teach that the various design parameters may be varied (paragraph 38), but do not disclose any particular fabric density. Monfalcone et al. also teaches a flame retardant fabric that is useful in mattresses (paragraph 29). Monfalcone et al. teach that density of a fire retardant fabric relates to its ability to form a barrier (paragraph 39). The basis weight (paragraph 38) and thickness (paragraph 39) values disclosed by Monfalcone et al. create density values that anticipate Applicant's claimed range. It would have been obvious to a person having ordinary skill in the art at the time of the invention to create the fire retardant fabric of Murphy et al. with a density of at least 0.16 g/cc in order to provide a fabric with the desired amount of barrier properties, as taught by Monfalcone et al., since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272 (CCPA 1980).

With regard to the limitation for air permeability of the fabric, Murphy et al. do not disclose any particular values. Air permeability is directly related to basis weight and density of the fabric, which have previously been rendered anticipated by or obvious over the prior art. Additionally, Forsten et al. teach a fire resistant layer comprising aramid fibers (Abstract). Forsten et al. disclose that air permeability should be kept low so that fire does not spread through the fire retardant layer (column 3, lines 10-25). It would have been obvious to a person having ordinary skill in the art at the time of the invention to create the fire retardant fabric of Murphy et al. with an air permeability of 70

m/min. or less in order to provide a fabric that is an effective barrier to fire, as taught by Forsten et al., since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art.

With regard to claim 4, Murphy et al. teach using poly(p-phenylene terephthalamide) fiber (paragraph 34). With regard to claims 6 and 7, Murphy et al. disclose adding oxygen depriving modacrylic fibers to the fabric (paragraph 34).

7. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Murphy et al. in view of Monfalcone et al. and Forsten et al as applied to claim 1 above, and further in view of Mater et al. (US 2004/0198125).

Murphy et al. teach using off gassing material, but fail to teach polyvinylchloride fibers. Mater et al. teach that halogenated fibers provide oxygen depleting gases when exposed to flames (paragraph 1). Mater et al. also teach that polyvinylchloride fibers are equivalent to modacrylic fibers for such a purpose (claim 45). It would have been obvious to a person having ordinary skill in the art at the time of the invention to use polyvinylchloride fibers instead of modacrylic fibers as an off gassing fiber in Murphy et al., since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use. *In re Leshin*, 125 USPQ 416.

8. Claims 9-15, 17, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murphy et al. in view of Monfalcone et al. and Forsten et al. as applied to claim 1 above, and further in view of Keller et al. (U.S. Patent No. 6,174,584).

Murphy et al. teach the barrier fabric may be quilted to a ticking layer using fire-retardant thread, such as para-aramid thread (paragraph 42). Murphy et al. do not disclose a basis weight for the ticking. Keller et al. teach that outer covering layers for mattresses should weigh between 100 and 500 gsm in order to provide comfort (column 2, lines 51-56). It would have been obvious to a person having ordinary skill in the art at the time of the invention to provide an outer ticking to the fabric of Murphy et al. within the claimed basis weight in order to provide a mattress that is comfortable for sleep, as taught by Keller et al. With regard to claim 10, Murphy et al. teach the fabric may be used in the border of a mattress (paragraph 41).

9. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Murphy et al. in view of Monfalcone et al, Forsten et al, and Mater et al. as applied above in section 7, and further in view of Keller et al. as applied above in section 8.

Double Patenting

10. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

11. Claims 1-18 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-28 of copending Application No. 10/630,081. Although the conflicting claims are not identical because different properties are recited, they are not patentably distinct from each other because both sets of claims are directed to similar structural material comprising mattress components and a fire blocking fabric comprising cellulosic and organic fibers.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeremy R. Pierce whose telephone number is (571) 272-1479. The examiner can normally be reached on Monday-Friday between 9am and 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on (571) 272-1478. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

JRP

Jeremy R. Pierce

May 4, 2005

Elizabeth M. Cole
ELIZABETH M. COLE
PATENT EXAMINER